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Terms	Documents
L16 and @pd > 20060916	7

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L17

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<u>L17</u>	L16 and @pd > 20060916	7	<u>L17</u>
<u>L16</u>	(server\$ with "web content") and updat\$ and (timer or timestamp or clock near3 notif\$5) and (compress\$ same data same file)	23	<u>L16</u>
<u>L15</u>	(server\$ with "web content") and updat\$ and (timer or timestamp near3 notif\$5) and (compress\$ same data same file)	10	<u>L15</u>
<u>L14</u>	(server\$ with "web content") and updat\$ and (timer or timestamp near3 notif\$5)	153	<u>L14</u>
<u>L13</u>	(server\$ with "web content") and updat\$	1462	<u>L13</u>
<u>L12</u>	"synchronously updating" and ("multiple language" with "web content")	2	<u>L12</u>
<u>L11</u>	709/\$.ccls. and ((primary or first server with web same content) and (secondary same server with "language code setting") and (timer or schedule))	0	<u>L11</u>
<u>L10</u>	(primary or first server with web same content) and (secondary same server with "language code setting") and (timer or schedule)	2	<u>L10</u>
	709/\$.ccls. and (((multiple same language same web same content) same (primary or first adj1 server) same (secondary or second adj1 server) and (timer		

<u>L9</u>	or schedule) and notif\$ and compil\$ and updat\$) and (content same file) and (search\$ or quer\$ same updat\$ same content same file) and (compress\$ same data same file) and (transmit\$ same network))	0	<u>L9</u>
<u>L8</u>	707/\$.ccls. and (((multiple same language same web same content) same (primary or first adj1 server) same (secondary or second adj1 server) and (timer or schedule) and notif\$ and compil\$ and updat\$) and (content same file) and (search\$ or quer\$ same updat\$ same content same file) and (compress\$ same data same file) and (transmit\$ same network))	1	<u>L8</u>
<u>L7</u>	((multiple same language same web same content) same (primary or first adj1 server) same (secondary or second adj1 server) and (timer or schedule) and notif\$ and compil\$ and updat\$) and (content same file) and (search\$ or quer\$ same updat\$ same content same file) and (compress\$ same data same file) and (transmit\$ same network)	1	<u>L7</u>
<u>L6</u>	((multiple same language same web same content) same (primary or first adj1 server) same (secondary or second adj1 server) and (timer or schedule) and notif\$ and compil\$ and updat\$) and (content same file) and (search\$ or quer\$ same updat\$ same content same file) and (transmit\$ same network)	1	<u>L6</u>
<u>L5</u>	((multiple same language same web same content) same (primary or first adj1 server) same (secondary or second adj1 server) and (timer or schedule) and notif\$ and compil\$ and updat\$) and (content same file) and (search\$ or quer\$ same updat\$ same content same file) and (transmit\$ near network)	0	<u>L5</u>
<u>L4</u>	((multiple same language same web same content) same (primary or first adj1 server) same (secondary or second adj1 server) and (timer or schedule) and notif\$ and compil\$ and updat\$) and (content same file) and (search\$ or quer\$ same updat\$ same content same file)	3	<u>L4</u>
<u>L3</u>	((multiple same language same web same content) same (primary or first adj1 server) same (secondary or second adj1 server) and (timer or schedule) and notif\$ and compil\$ and updat\$) and (content same file)	3	<u>L3</u>
<u>L2</u>	(multiple same language same web same content) same (primary or first adj1 server) same (secondary or second adj1 server) and (timer or schedule) and notif\$ and compil\$ and updat\$	3	<u>L2</u>
<u>L1</u>	(synchronous\$ same updat\$) near (multiple same language same web same content) same (primary or first adj1 server) same (secondary or second adj1 server) and (timer or schedule) and notif\$ and compil\$	0	<u>L1</u>

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Search Results - Record(s) 1 through 7 of 7 returned.

☐ 1. Document ID: US 20070005804 A1

Using default format because multiple data bases are involved.

L17: Entry 1 of 7

File: PGPB

Jan 4, 2007

PGPUB-DOCUMENT-NUMBER: 20070005804

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070005804 A1

TITLE: Multicast videoconferencing

PUBLICATION-DATE: January 4, 2007

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Rideout; Neil	Nova Scotia		CA

US-CL-CURRENT: 709/246

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 2. Document ID: US 20060265436 A1

Using default format because multiple data bases are involved.

L17: Entry 2 of 7

File: PGPB

Nov 23, 2006

PGPUB-DOCUMENT-NUMBER: 20060265436

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060265436 A1

TITLE: GRID NETWORK FOR DISTRIBUTION OF FILES

PUBLICATION-DATE: November 23, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
EDMOND; ANDREW	VASHON	WA	US
OHMERT; STEVEN	VASHON	WA	US

US-CL-CURRENT: 707/204

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 3. Document ID: US 20060265402 A1

Using default format because multiple data bases are involved.

L17: Entry 3 of 7

File: PGPB

Nov 23, 2006

PGPUB-DOCUMENT-NUMBER: 20060265402

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060265402 A1

TITLE: GRID NETWORK FOR DISTRIBUTION OF FILES

PUBLICATION-DATE: November 23, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
EDMOND; ANDREW	VASHON	WA	US
OHMERT; STEVEN	VASHON	WA	US

US-CL-CURRENT: 707/10

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 4. Document ID: US 20060265401 A1

Using default format because multiple data bases are involved.

L17: Entry 4 of 7

File: PGPB

Nov 23, 2006

PGPUB-DOCUMENT-NUMBER: 20060265401

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060265401 A1

TITLE: GRID NETWORK FOR DISTRIBUTION OF FILES

PUBLICATION-DATE: November 23, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
EDMOND; ANDREW	VASHON	WA	US
OHMERT; STEVEN	VASHON	WA	US

US-CL-CURRENT: 707/10

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 5. Document ID: US 20060265371 A1

Using default format because multiple data bases are involved.

L17: Entry 5 of 7

File: PGPB

Nov 23, 2006

PGPUB-DOCUMENT-NUMBER: 20060265371  
PGPUB-FILING-TYPE:  
DOCUMENT-IDENTIFIER: US 20060265371 A1

TITLE: GRID NETWORK FOR DISTRIBUTION OF FILES

PUBLICATION-DATE: November 23, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
EDMOND; ANDREW	VASHON	WA	US
OHMERT; STEVEN	VASHON	WA	US

US-CL-CURRENT: 707/7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 6. Document ID: US 7194522 B1

L17: Entry 6 of 7

File: USPT

Mar 20, 2007

US-PAT-NO: 7194522  
DOCUMENT-IDENTIFIER: US 7194522 B1

TITLE: Content delivery and global traffic management network system

DATE-ISSUED: March 20, 2007

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Swildens; Eric Sven-Johan	Mountain View	CA		US
Day; Richard David	Mountain View	CA		US
Gupta; Ajit K.	Fremont	CA		US

US-CL-CURRENT: 709/217; 370/229, 718/105

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 7. Document ID: US 7155723 B2

L17: Entry 7 of 7

File: USPT

Dec 26, 2006

US-PAT-NO: 7155723  
DOCUMENT-IDENTIFIER: US 7155723 B2

TITLE: Load balancing service

DATE-ISSUED: December 26, 2006

PRIOR-PUBLICATION:

DATE  
February 10, 2005

NAME	CITY	STATE	ZIP CODE	COUNTRY
Swildens; Eric Sven-Johan	Mountain View	CA		US
Day; Richard David	Mountain View	CA		US
Gupta; Ajit K.	Fremont	CA		US

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIOC	Draw. De
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Terms	Documents
L16 and @pd > 20060916	7

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### 1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

 Full text available: [pdf\(4.21 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

### 2 [Fast and secure distributed read-only file system](#)



Kevin Fu, M. Frans Kaashoek, David Mazières

 February 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 1

Publisher: ACM Press

 Full text available: [pdf\(317.54 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Internet users increasingly rely on publicly available data for everything from software installation to investment decisions. Unfortunately, the vast majority of public content on the Internet comes with no integrity or authenticity guarantees. This paper presents the self-certifying read-only file system, a content distribution system providing secure, scalable access to public, read-only data. The read-only file system makes the security of published content independent from that of the distri ...

**Keywords:** File systems, read-only, security

### 3 [A taxonomy of Data Grids for distributed data sharing, management, and processing](#)



Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao

 June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1

Publisher: ACM Press

 Full text available: [pdf\(1.70 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Data Grids have been adopted as the next generation platform by many scientific communities that need to share, access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance networking and wide-area storage management techniques. In this article, we discuss the key concepts behind Data Grids and compare them with other data sharing and distribution paradigms such as content delivery networks, peer-to-peer n ...

**Keywords:** Grid computing, data-intensive applications, replica management, virtual organizations

#### 4 Model-driven design and deployment of service-enabled web applications



Ioana Manolescu, Marco Brambilla, Stefano Ceri, Sara Comai, Piero Fraternali  
August 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 3

**Publisher:** ACM Press

Full text available: pdf(3.07 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Significant effort is currently invested in application integration, enabling business processes of different companies to interact and form complex multiparty processes. Web service standards, based on WSDL (Web Service Definition Language), have been adopted as process-to-process communication paradigms. However, the conceptual modeling of applications using Web services has not yet been addressed. Interaction with Web services is often specified at the level of the source code; thus, Web serv ...

**Keywords:** UML, Web application, Web services, WebML, modeling

#### 5 System support for pervasive applications



Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anderson, Brian Bershad, Gaetano Borriello, Steven Gribble, David Wetherall  
November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4

**Publisher:** ACM Press

Full text available: pdf(1.82 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Pervasive computing provides an attractive vision for the future of computing. Computational power will be available everywhere. Mobile and stationary devices will dynamically connect and coordinate to seamlessly help people in accomplishing their tasks. For this vision to become a reality, developers must build applications that constantly adapt to a highly dynamic computing environment. To make the developers' task feasible, we present a system architecture for pervasive computing, called & ...

**Keywords:** Asynchronous events, checkpointing, discovery, logic/operation pattern, migration, one.world, pervasive computing, structured I/O, tuples, ubiquitous computing

#### 6 The Conquest file system: Better performance through a disk/persistent-RAM hybrid design



An-I Andy Wang, Geoff Kuenning, Peter Reiher, Gerald Popek  
August 2006 **ACM Transactions on Storage (TOS)**, Volume 2 Issue 3

**Publisher:** ACM Press

Full text available: pdf(1.34 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Modern file systems assume the use of disk, a system-wide performance bottleneck for over a decade. Current disk caching and RAM file systems either impose high overhead to access memory content or fail to provide mechanisms to achieve data persistence across



reboots. The *Conquest* file system is based on the observation that memory is becoming inexpensive, which enables all file system services to be delivered from memory, except for providing large storage capacity. Unlike caching, *Con* ...

**Keywords:** *Persistent RAM, file systems, performance measurement, storage management*

7 Soft updates: a solution to the metadata update problem in file systems



Gregory R. Ganger, Marshall Kirk McKusick, Craig A. N. Soules, Yale N. Patt  
May 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 2

**Publisher:** ACM Press

Full text available: pdf(147.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Metadata updates, such as file creation and block allocation, have consistently been identified as a source of performance, integrity, security, and availability problems for file systems. Soft updates is an implementation technique for low-cost sequencing of fine-grained updates to write-back cache blocks. Using soft updates to track and enforce metadata update dependencies, a file system can safely use delayed writes for almost all file operations. This article describes soft ...

8 Client-server computing in mobile environments



Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid  
June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

**Publisher:** ACM Press

Full text available: pdf(233.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

**Keywords:** application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile computing, mobile data, mobility awareness, survey, system application

9 A fine-grained access control system for XML documents



Ernesto Damiani, Sabrina De Capitani di Vimercati, Stefano Paraboschi, Pierangela Samarati  
May 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 2

**Publisher:** ACM Press

Full text available: pdf(330.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Web-based applications greatly increase information availability and ease of access, which is optimal for public information. The distribution and sharing of information via the Web that must be accessed in a selective way, such as electronic commerce transactions, require the definition and enforcement of security controls, ensuring that information will be accessible only to authorized entities. Different approaches have been proposed that address the problem of protecting information in a Web ...

**Keywords:** Access control, World Wide Web, XML documents, authorizations specification and enforcement

10 Interposed request routing for scalable network storage

 February 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(363.12 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper explores interposed request routing in Slice, a new storage system architecture for high-speed networks incorporating network-attached block storage. Slice interposes a request switching filter---called a *μproxy*---along each client's network path to the storage service (e.g., in a network adapter or switch). The *μproxy* intercepts request traffic and distributes it across a server ensemble. We propose request routing schemes for I/O and file service traffic, and explore th ...

**Keywords:** Content switch, file server, network file system, network storage, request redirection, service virtualization

11 Recovery guarantees for Internet applications

 Roger Barga, David Lomet, German Shegalov, Gerhard Weikum

August 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 3

**Publisher:** ACM Press


Full text available:  pdf(997.52 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Internet-based e-services require application developers to deal explicitly with failures of the underlying software components, for example web servers, servlets, browser sessions, and so forth. This complicates application programming, and may expose failures to end users. This paper presents a framework for an application-independent infrastructure that provides recovery guarantees and masks almost all system failures, thus relieving the application programmer from having to deal with these f ...

**Keywords:** Exactly-once execution, application recovery, communication protocols, interaction contracts

12 Multimedia and hypermedia authoring: Live editing of hypermedia documents

 Romualdo Monteiro de Resende Costa, Márcio Ferreira Moreno, Rogério Ferreira Rodrigues, Luiz Fernando Gomes Soares

October 2006 **Proceedings of the 2006 ACM symposium on Document engineering DocEng '06**

**Publisher:** ACM Press

Full text available:  pdf(236.34 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In some hypermedia system applications, like interactive digital TV applications, authoring and presentation of documents may have to be done concomitantly. This is the case of live programs, where not only some contents are not known a priori, but also some temporal and spatial relationships, among program media objects, may have to be established after the unknown content definition. This paper proposes a method for hypermedia document live editing, preserving not only the presentation semanti ...

**Keywords:** NCL, SBTVD, declarative middleware, ginga, interactive digital TV

13 Declarative specification of Web sites with S

Mary Fernández, Daniela Florescu, Alon Levy, Dan Suciu

March 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**,  
Volume 9 Issue 1

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  [pdf\(188.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

S is a system for implementing *data-intensive* Web sites, which typically integrate information from multiple data sources and have complex structure. S's key idea is separating the management of a Web site's data, the specification of its content and structure, and the visual representation of its pages. S provides a declarative *query language* for specifying a site's content and structure, and a simple *template language* for specifying a site's HTML representation. This paper ...

**Keywords:** Declarative query languages, Web-site management

14 An open-source CVE for programming education: a case study: An open-source CVE for programming education: a case study



Andrew M. Phelps, Christopher A. Egert, Kevin J. Bierre, David M. Parks  
July 2005 **ACM SIGGRAPH 2005 Courses SIGGRAPH '05**

**Publisher:** ACM Press

Full text available:  [pdf\(7.92 MB\)](#) Additional Information: [full citation](#), [references](#)

15 Dynamic software updating



Michael Hicks, Scott Nettles  
November 2005 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,  
Volume 27 Issue 6

**Publisher:** ACM Press

Full text available:  [pdf\(622.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Many important applications must run continuously and without interruption, and yet also must be changed to fix bugs or upgrade functionality. No prior general-purpose methodology for dynamic updating achieves a practical balance between flexibility, robustness, low overhead, ease of use, and low cost. We present an approach for C-like languages that provides type-safe dynamic updating of native code in an extremely flexible manner---code, data, and types may be updated, at programmer-determined ...


**Keywords:** Dynamic software updating, typed assembly language

16 Continuous program optimization: A case study



Thomas Kistler, Michael Franz  
July 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,  
Volume 25 Issue 4

**Publisher:** ACM Press

Full text available:  [pdf\(877.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)



Much of the software in everyday operation is not making optimal use of the hardware on which it actually runs. Among the reasons for this discrepancy are hardware/software mismatches, modularization overheads introduced by software engineering considerations, and the inability of systems to adapt to users' behaviors. A solution to these problems is to delay code generation until load time. This is the earliest point at which a piece of software can be fine-tuned to the actual capabilities of the ...

**Keywords:** Dynamic code generation, continuous program optimization, dynamic reoptimization

17 Computing curricula 2001


 September 2001 **Journal on Educational Resources in Computing (JERIC)**

**Publisher:** ACM Press

Full text available:  [pdf\(613.63 KB\)](#)  
 [html\(2.78 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 Mobility: Improving web browsing performance on wireless pdas using thin-client computing

 Albert M. Lai, Jason Nieh, Bhagyashree Bohra, Vijayarka Nandikonda, Abhishek P. Surana, Suchita Varshneya

May 2004 **Proceedings of the 13th international conference on World Wide Web WWW '04**

**Publisher:** ACM Press


Full text available:  [pdf\(433.53 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Web applications are becoming increasingly popular for mobile wireless PDAs. However, web browsing on these systems can be quite slow. An alternative approach is handheld thin-client computing, in which the web browser and associated application logic run on a server, which then sends simple screen updates to the PDA for display. To assess the viability of this thin-client approach, we compare the web browsing performance of thin clients against fat clients that run the web browser locally on a P ...

**Keywords:** thin-client computing, web performance, wireless and mobility

19 Model-driven development of Web applications: the AutoWeb system

 Piero Fraternali, Paolo Paolini

October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4

**Publisher:** ACM Press


Full text available:  [pdf\(6.94 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

**Keywords:** HTML, WWW, application, development, intranet, modeling

20 Pavilion: a middleware framework for collaborative Web-based applications

 P. K. McKinley, A. M. Malenfant, J. M. Arango

November 1999 **Proceedings of the international ACM SIGGROUP conference on Supporting group work GROUP '99**

**Publisher:** ACM Press

Full text available:  [pdf\(1.92 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes Pavilion, an object-oriented middleware framework for developing collaborative web-based applications. Pavilion enables a developer to construct new

applications by inheriting and extending its default functionality. Reusable and extensible Pavilion components include interfaces to common web browsers, a reliable multicast protocol tailored for delivery of web resources, a leadership protocol for floor control, and a highly modular proxy server that supports data type-s ...

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